AEE/BSD/SBR/14/DT 20/05/20

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CONTRACT CERTIFICATE

(For Other Works)

No. 1st and Final bill

Date.....20.....

Division-Dasarahalli Division

Bill Received No.....Dated.....Cash Book Voucher No.....dated.....

Scheduled Docket No.....

Head of Account:

Name of Work: Drilling of Borewell in Mallasandra Colony , BHEL Mini colony Pk's Slum, Ravindra Nagara Slum, and Surrounding Area in Ward No.13

Contractor and Full Address: M/S KRIDL

Work Order No: BBMP/EE/DD/W.O/552/2019-20

Job code No: 013-20-000063

Certified that the measurements were taken by me on 20/05/20 and recorded in pages 48 to 120 : 48 to 126

Of measurement Book No. 4838/19-20 and that the work is satisfactorily executed.

Contractor

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

Officer-in-charge of work

Certified that the measurements were taken by me on 20/05/2020 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

If Memorandum of Payment

1) Total value of work done or supplies made as per account within
2) Deduct amount to be held in reserve being.....percent Rs.....
3) Deduct amount to be held in Balance
4) Deduct Payment :
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D No.....
   Amount adjusted towards cash advance recovery of
   b) Payments cost store or other materials supplied.
   Now made recovery of amount creditable to this/other work
   Amount paid on this bill Cheque/Cash
5) Balance being unpaid value of work done held in reserve
6) Deduct cash advance made on the office Cash Book Voucher No.....
   date .....less adjustments
7) Net amount due to or from contractor

Unadjusted items

8) Advance to contractor for materials brought to site (as detailed) within value of Governme
   materials supplied

₹₹56137=00
1st and Finall Bill ₹₹887796=00
155123=00 ← IT → 155₹₹=00
₹₹561=00 ← Lwc → ₹₹888=00
38₹80₹=00 ← FSD → 38₹₹₹0=00 (-)
₹₹56=00 ← CSF → ₹₹89=00
Roy → 25500=00
69251=00 ← CyST → 69543=00
69251=00 ← SyST → 69543=00
₹₹5479=00
₹₹2249=00
699331₹=6963888=00

Contractor's Signature

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

Received Rs.....(in words)
By Cash and by adjustment of Payment as per memorandum.

Witnesses:

1.

2.

(For use in the Office)

₹₹5617=00

Dated.....Signature of Contractor

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

Audited and admitted for Rs. ₹₹887796=00
Passed by Cheque for Rs. 6963888=00 699331₹=00
(Sixty Nine lakhs Ninety three thousand three Hundred Eighty Eight Only)
by adjustment Rs. ₹₹2249=00

Paid by me by cheque No.....Dated.....

Cash Rs.....Dated.....

Accounts Superintendent / Executive Engineer
B.B.M.P. Dasarahalli Division

Initials of Officer Making Payment

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Name of Work :Drilling of Borewell in Manasandra Colony, [illegible]

Surrounding Area in Ward No.13

ABSTRACT

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc	Each	7.00	3881.04	27167.28	-	-	7.00	3881.04	27167.28	7.00	27167.28
	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) (Page no.118,item no.13.01 ,											
	0.00 to 50.00 Mtr.	Mtr	350.00	357.41	125093.50	-	-	350.00	357.41	125093.50	350.00	125093.50
	50.00 to 100.00 Mtr.	Mtr	350.00	455.26	159341.00	-	-	350.00	455.26	159341.00	350.00	159341.00

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			Qty	Rate	Amount	Qty	Amount	Qty	Rate In Rs.	Amount	Qty	Amount
	100.00 to 150.00 Mtr.	Mtr	350.00	469.68	164388.00	-	-	350.00	469.68	164388.00	350.00	164388.00
	150.00 to 200.00 Mtr.	Mtr	350.00	552.08	193228.00	-	-	350.00	552.08	193228.00	350.00	193228.00
	200.00 to 250.00 Mtr.	Mtr	350.00	653.02	228557.00	-	-	350.00	653.02	228557.00	350.00	228557.00
	250.00 to 300.00 Mtr.	Mtr	350.00	721.00	252350.00	-	-	350.00	721.00	252350.00	350.00	252350.00
	300.00 to 350.00 Mtr.	Mtr	350.00	849.75	297412.50	-	-	346.00	849.75	294013.50	346.00	294013.50
	350.00 to 400.00 Mtr.	Mtr	60.00	927.00	55620.00	-	-	58.00	927.00	53766.00	58.00	53766.00
3	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes. All shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.(exclusive of all taxes and duties).prices include Collar-Medium duty. 175mm dia x 5.4mm thick	Rmt	350.00	1364.75	477662.50	-	-	350.00	1364.75	477662.50	350.00	477662.50
4	Providing and fixing 250mm dia PVC pipe and as per specification and directions.	Rmt	42.00	1100.00	46200.00	-	-	42.00	1100.00	46200.00	42.00	46200.00
5	Providing and laying at site of work175mm thick MS casing caps as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge	Each	7.00	103.00	721.00	-	-	7.00	103.00	721.00	7.00	721.00

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			Qty	Rate	Amount	Qty	Amount	Qty				
6	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz 380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 15HP/11KW 25 stage	Nos	7.00	63986.90	447908.30	-	-	7.00	63986.90	447908.30	7.00	447908.30
7	Providing, laying & jointing GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc, complete 'A' grade(excluding cost of fittings) 50mm dia GI pipe	Rmtr	2100.00	542.72	1139712.00	-	-	2100.00	542.72	1139712.00	2100.00	1139712.00
8	supply of 50mm M S collars	Each	350.00	212.00	74200.00	-	-	350.00	212.00	74200.00	350.00	74200.00
9	Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS: 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts 4 sqmm of 56 strands 0.3mm dia	Mtr	4480.00	144.20	646016.00	-	-	4480.00	144.20	646016.00	4480.00	646016.00

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			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
10	Supplying & delivery at site brand new / Essen / Lotus sunshine/ Adarsh/ GK controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc., completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR)	Nos	7.00	14800.00	103600.00	-	-	7.00	14800.00	103600.00	7.00	103600.00
11	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sq cm	Sqm Cm	154000.00	0.41	63448.00	-	-	154000.00	0.41	63448.00	154000.00	63448.00
12	Providing & Fixing of clamps set and borewell cap to the pump (MR)	Set	7.00	1908.00	13356.00	-	-	7.00	1908.00	13356.00	7.00	13356.00
13	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments.Size- 50mm .	No's	7.00	1175.00	8225.00	-	-	7.00	1175.00	8225.00	7.00	8225.00

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						Measurement							
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
14	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments,Size- 50mm (Page no.104,item no.12.05 (a) ,	No's	7.00	1190.00	8330.00	_	_	7.00	1190.00	8330.00	7.00	8330.00
15	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI bend confirming to IS 1239-II, 1991 with latest amendments if any. (Page no.212,item no.15.74.5 ,	No's	7.00	235.00	1645.00	_	_	7.00	235.00	1645.00	7.00	1645.00
16	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI union confirming to IS 1239-II, 1991 with latest amendments if any. (Page no.212,item no.15.78.5 ,	No's	7.00	175.00	1225.00	_	_	7.00	175.00	1225.00	7.00	1225.00
17	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI elbow confirming to IS 1239-II, 1991 with latest amendments if any.(Page no.211,item no.15.73.5 ,	No's	7.00	175.00	1225.00	_	_	7.00	175.00	1225.00	7.00	1225.00
18	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work.	Job	7.00	5819.50	40736.50	_	_	7.00	5819.50	40736.50	7.00	40736.50
9	Labour charges for erection of indoor type panel board and meter board units with all necessary materials and labour tools and equipments including cement concrete for foundation/bed etc,complete as per specification, with testing of as per instructions of engineer incharge of work.	No's	7.00	1160.81	8125.67	_	_	7.00	1160.81	8125.67	7.00	8125.67

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			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	
20	Supplying and fixing miniature circuit breakers/isolators on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, Energy cross-3 with short circuit breaking capacity of 10k and complete wiring as required confirming to IEC 60898, 40 Amps DP	Each	7.00	1376.08	9632.56	–	–	7.00	1376.08	9632.56	7.00	9632.56
21	Supplying and laying of L.T.U.G Cable having aluminium conductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554)	Mtr	245.00	154.50	37852.50	–	–	245.00	154.50	37852.50	245.00	37852.50
22	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces (As per Civil SR KSRB I-2,P-7)	Mtr	245.00	78.28	19178.60	–	–	245.00	78.28	19178.60	245.00	19178.60
23	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm	Mtr	21.00	345.05	7246.05	–	–	21.00	345.05	7246.05	21.00	7246.05
24	Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia. (Page no.106,item no.12.23	Job	7.00	3741.99	26193.93	–	–	7.00	3741.99	26193.93	7.00	26193.93

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Sl No	Description of Work	Unit	As per Tender			Measurement		Rate in Rs.	Amount	Qty	Amount
			Qty	Rate	Amount	Qty	Amount				
25	Providing, Supplying and fixing CI cast iron pathoads suitable for 11 kV class Dbt cable filled with necessary bitumen/insulating compound complete with terminals, clamps,bolts,nuts and washers etc. with necessary materials and labour tools and equipments as per instructions of engineer incharge of work. Dyn Spin (Page no 106,item no 15.25).	No's	7.00	511.91	3583.37	"	"	7.00	511.91	3583.37	7.00	3583.37
26	Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834, 3phase 400/440 volts grade,for power factor improvement of heating machinery like induction motor	KVAR	7.00	412.00	2884.00	"	"	7.00	412.00	2884.00	7.00	2884.00
27	Providing and fixing Gun Metal Gate wheel valve conforming to IS specification of approved make as per direction including all lead and lift etc. Complete 50mm dia	No's	7.00	778.04	5446.28	"	"	7.00	778.04	5446.28	7.00	5446.28
28	Supplying and fixing of polished wood board made of not less than 19mm thick plank on both sides of not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches	Each	7.00	300.76	2105.32	"	"	7.00	300.76	2105.32	7.00	2105.32
29	KPTCL Deposit charges	L/S	7.00	10000.00	70000.00	"	"	7.00	10000.00	70000.00	7.00	70000.00
30	Borewell registration charges per Rs 1000 each for BWSSB	Each	7.00	1000.00	7000.00	"	"	7.00	1000.00	7000.00	7.00	7000.00

6978 = 00 48846 = 00 48846 = 00

KPTCL charges → 1) 8064537741 → 6860+9+9+100 = 6978 = 00
2) 9669110625 → 6860+9+9+100 = 6978 = 00
3) 8546921626 → 6860+9+9+100 = 6978 = 00
4) 8762229045 → 6860+9+9+100 = 6978 = 00
5) 2119021934 → 6860+9+9+100 = 6978 = 00
6) 9200861246 → 6860+9+9+100 = 6978 = 00
7) 9945637508 → 6860+9+9+100 = 6978 = 00

48846 = 00

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			Qty	Rate	Amount	Measurement Qty	Measurement Amount	Qty	Rate in Rs.	Amount	Qty	Amount
31	KSRB 2.2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinery soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5	cum	608.48	316.94	192850.07 192851.65	-	-	607.76	316.94	192623.45 192624.25	607.76	192623.45 192624.25
32	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete (external work) 50mm nominal OD pipes	Rmt	854.00	457.92	391003.68	-	-	853.00	457.92	390605.76	853.00	390605.76 390605.76
33	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve thedesired density complete as per specifications. MORTH Specification No. 406	Cum	96.08	2001.28	192272.98	-	-	95.96	2001.28	192047.83	95.96	192047.83 192047.83

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Sl No	Description of ...		Qty	Rate	Amount	Qty	Amount	Qty				
34	Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.	cum	96.08	5509.33	529308.56 529336=ω	-	-	95.96	5509.33	528688.76 528675=ω	95.96	528688.76 528675=ω
35	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)	cum	96.08	5354.02	514446=ω 514387.65	-	-	95.96	5354.02	513772=ω 513785.32	95.96	513772=ω 513785.32

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Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement				
			Qty	Rate	Amount	Qty	Amount	Qty	Rate In Rs.	Amount	Qty	Amount
36	Filling available earth around pipe lines cable in layers not exceeding 20cms, in depth compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost all labour complete as per specifications	Cum	592.80	213.06	126301.97	–		590.00	213.06	125705.40	590.00	125705.40
	Total				6722800.76					6714820.18		6714820.18
	GST Chaarges 12%				806736.09					805778.42		805778.42
	KRIDL Charge 4%				268912.03					268592.81		268592.81
	Grand Total				7798448.88					7789191.41		7789191.41

CERTIFICATE

1 Certified that the work done is satisfactorily.
2 There is no departmental issues by BBMP

Assistant Engineer
Ward No-13

NOTE:- Bore well Point coordinates [P.T.O]

Asst. Executive Engineer
Shetty halli Sub Division

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